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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
09/823,222	03/29/2001	Uli Behringer	30914/7:1	914/7:1 6067	
3528	7590 12/20/2004		EXAMINER		
STOEL RIVES LLP			GRIER, LAURA A		
900 SW FIFTH AVENUE SUITE 2600			ART UNIT	PAPER NUMBER	
PORTLAND, OR 97204			2644		
•			DATE MAILED: 12/20/200	4	

Please find below and/or attached an Office communication concerning this application or proceeding.

		A 11. 41. A1.	A - 11 - 11	—— ( <i>)</i>
		Application No.	Applicant(s)	01
Office Andia O		09/823,222	BEHRINGER ET AL.	
	Office Action Summary	Examiner	Art Unit	
		Laura A Grier	2644	
Period fo	The MAILING DATE of this communic or Reply	cation appears on the cover sheet w	vith the correspondence address	:
A SHI THE I Exter after If the If NO Failu Any r earne	ORTENED STATUTORY PERIOD FO MAILING DATE OF THIS COMMUNIC nsions of time may be available under the provisions of SIX (6) MONTHS from the mailing date of this communic period for reply specified above is less than thirty (30) period for reply is specified above, the maximum state to reply within the set or extended period for reply wreply received by the Office later than three months afted patent term adjustment. See 37 CFR 1.704(b).	CATION.  of 37 CFR 1.136(a). In no event, however, may a unication.  of days, a reply within the statutory minimum of the utory period will apply and will expire SIX (6) MC will, by statute, cause the application to become a	a reply be timely filed  irty (30) days will be considered timely.  DNTHS from the mailing date of this communic  ABANDONED (35 U.S.C. § 133).	cation.
Status				
1)[	Responsive to communication(s) filed	d on		-
2a)[_	This action is <b>FINAL</b> . 2	b)⊠ This action is non-final.		
3)	Since this application is in condition for closed in accordance with the practice			ts is
Dispositi	on of Claims			
5)□ 6)⊠ 7)⊠	Claim(s) 1-10 is/are pending in the ap 4a) Of the above claim(s) is/are Claim(s) is/are allowed. Claim(s) 1-7 and 9 is/are rejected. Claim(s) 8 and 10 is/are objected to. Claim(s) are subject to restricti	e withdrawn from consideration.		
	on Papers			
	The specification is objected to by the			
10)[🔀]	The drawing(s) filed on 29 March 200			
	Applicant may not request that any object	- · · · · · · · · · · · · · · · · · · ·		
11)	Replacement drawing sheet(s) including t The oath or declaration is objected to			
Priority u	ınder 35 U.S.C. § 119		,	
a)[	Server.	ocuments have been received. ocuments have been received in figure of the priority documents have been all Bureau (PCT Rule 17.2(a)).	Application No n received in this National Stage	<b>;</b>
A44nah 4	V-1			
Attachment 1)	e of References Cited (PTO-892)	4) 🗖 Intoniis	Summany (DTO 442)	
2) 🔲 Notice 3) 🔲 Inform	e of Neterences Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PT nation Disclosure Statement(s) (PTO-1449 or P ' No(s)/Mail Date	O-948) Paper No	Summary (PTO-413) (s)/Mail Date Informal Patent Application (PTO-152)	

U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04) Application/Control Number: 09/823,222 Page 2

Art Unit: 2644

**DETAILED ACTION** 

#### **Priority**

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

## Claim Objections

2. The numbering of claims is not in accordance with 37 CFR 1.126 which requires the original numbering of the claims to be preserved throughout the prosecution. When claims are canceled, the remaining claims must not be renumbered. When new claims are presented, they must be numbered consecutively beginning with the number next following the highest numbered claims previously presented (whether entered or not).

Misnumbered claim 10 has been renumbered as claim 9.Misnumbered claim 11 has been renumbered as claim 10.

### Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1-2, 5-6 and 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Schiffman, U. S. Patent No. 3906384 in view of the Applicant's Admitted Prior Art (herein, AAPA).

Art Unit: 2644

Regarding claims 1 and 9, Schiffman discloses a system for nullifying signal distortions. Schiffman's (figure 3, col. 3, lines 30-63) disclosure inherently discloses a signal source as evident by the analog input signal; N stages (10/12), which represents a 1<sup>st</sup> and 2<sup>nd</sup> input stages; an inverter (8) which provides the second input stage with a inverse of the analog signal, wherein the control points are inherently discloses as evident output of the N-stages; and a difference amplifier (14). However, Schiffman fails to specifically disclose the analog signal source providing an audio signal.

Regarding the analog signal being an audio signal, the AAPA discloses on pages 2 and 3 audio inputs from musical instruments (claim 9), which reads on a signal source providing the audio signal.

It would have been obvious to one of the ordinary skill in the art at the time the invention was made to modify the invention of Schiffman by implementing an audio signal source for purpose of reducing distortion characteristics of the audio signal.

Regarding claim 2, Schiffman discloses everything claimed as applied above (see claim 1). Schiffman's N-stages are indicate of passive circuits (see figure 3).

Regarding claim 5, Schiffman discloses everything claimed as applied above (see claim

1). Schiffman's inverter (8), col. 3, lines 54-63, which reads on an inverter circuit.

Regarding claim 6, Schiffman discloses everything claimed as applied above (see claim

- 1). Schiffman's amplifier (14), reads on the difference amplifier.
- 5. Claims 3-4, and 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Schiffman in view of AAPA.

Application/Control Number: 09/823,222

Art Unit: 2644

Regarding claims 3-4 and 7, Schiffman and AAPA discloses everything claimed as applied above. Schiffman further discloses that other analog processing circuitry may be used to implement function (col. 5, lines 32-35).

It would have been obvious to one of the ordinary skill in the art at the time the invention was made to modify the invention of Schiffman providing alternate devices like the diodes or amplifiers in the input stages, and a high input impedance for the purpose of acquiring the desired optimal performance of reducing distortion among an audio signal.

Claims 8 and 10 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Laura A Grier whose telephone number is (703) 306-4819. The examiner can normally be reached on Monday - Friday, 7:30 am - 4:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Forester W. Isen can be reached on (703) 305-4386. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Art Unit: 2644

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

December 11, 2004